

## **STIC Biotechnology Systems Branch**

### **RAW SEQUENCE LISTING** **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/722,903B  
Source: IFW16  
Date Processed by STIC: 5/16-06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

**<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

## Raw Sequence Listing Error Summary

### ERROR DETECTED

### SUGGESTED CORRECTION

SERIAL NUMBER:

10722,903 B

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1      Wrapped Nucleics  
    Wrapped Aminos      The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2      Invalid Line Length      The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3      Misaligned Amino  
    Numbering      The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4      Non-ASCII      The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5      Variable Length      Sequence(s)      contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6      PatentIn 2.0  
    "bug"      A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)     . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7      Skipped Sequences  
    (OLD RULES)      Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence:  
                                 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
                                 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
                                 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
                                 This sequence is intentionally skipped  
  
                                 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8      Skipped Sequences  
    (NEW RULES)      Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence.  
                                 <210> sequence id number  
                                 <400> sequence id number  
                                 000
- 9      Use of n's or Xaa's  
    (NEW RULES)      Use of n's and/or Xaa's have been detected in the Sequence Listing.  
                                 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
                                 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10      Invalid <213>  
    Response      Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or  
                                 scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or  
                                 is Artificial Sequence
- 11      Use of <220>      Sequence(s)      missing the <220> "Feature" and associated numeric identifiers and responses.  
                                 Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or  
                                 "Unknown." Please explain source of genetic material in <220> to <223> section.  
                                 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12      PatentIn 2.0  
    "bug"      Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13      Misuse of n/Xaa      "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFW16

## RAW SEQUENCE LISTING

DATE: 05/16/2006

PATENT APPLICATION: US/10/722,903B

TIME: 08:13:03

Input Set : A:\Revised Sequence Listing\_GTC-53.ST25.txt

Output Set: N:\CRF4\05162006\J722903B.raw

3 <110> APPLICANT: GTC Biotherapeutics, Inc.  
 5 <120> TITLE OF INVENTION: Modified Antibodies Stably Produced in Milk and Methods of  
 6 Producing Same  
 8 <130> FILE REFERENCE: GTC-53  
 10 <140> CURRENT APPLICATION NUMBER: 10/722,903B  
 11 <141> CURRENT FILING DATE: 2003-11-26  
 13 <150> PRIOR APPLICATION NUMBER: US 60/429,606  
 14 <151> PRIOR FILING DATE: 2002-11-27  
 16 <160> NUMBER OF SEQ ID NOS: 10  
 18 <170> SOFTWARE: PatentIn version 3.2  
 20 <210> SEQ ID NO: 1  
 21 <211> LENGTH: 61  
 22 <212> TYPE: DNA  
 23 <213> ORGANISM: Homo sapiens  
 26 <220> FEATURE:  
 27 <221> NAME/KEY: misc\_feature  
 28 <223> OTHER INFORMATION: IgG4 Hinge Region Nucleic Acid  
 30 <400> SEQUENCE: 1  
 31 tctgcagagt ccaaatatgg tcccccatgc ccatacatgcc caggtaagcc aaccagggcc 60  
 33 t 61  
 36 <210> SEQ ID NO: 2  
 37 <211> LENGTH: 12  
 38 <212> TYPE: PRT  
 39 <213> ORGANISM: Homo sapiens  
 42 <220> FEATURE:  
 43 <221> NAME/KEY: misc\_feature  
 44 <223> OTHER INFORMATION: IgG4 Hinge Region Amino Acid  
 46 <400> SEQUENCE: 2  
 48 Glu Ser Lys Tyr Gly Pro Pro Cys Pro Ser Cys Pro  
 49 1 5 10  
 52 <210> SEQ ID NO: 3  
 53 <211> LENGTH: 33  
 54 <212> TYPE: DNA  
 55 <213> ORGANISM: oligonucleotide  
 58 <220> FEATURE:  
 59 <221> NAME/KEY: misc\_feature  
 60 <223> OTHER INFORMATION: S241P Oligo Nucleic Acid  
 62 <400> SEQUENCE: 3  
 63 ggtcccccat gtcttccttg cccaggttaag cca  
 66 <210> SEQ ID NO: 4  
 67 <211> LENGTH: 11  
 68 <212> TYPE: PRT  
 69 <213> ORGANISM: oligonucleotide

Does Not Comply  
Corrected Diskette Needed  
(pg. 1, 3) 2

See item  
#10 on  
error  
Summary  
Sheet.

## RAW SEQUENCE LISTING

DATE: 05/16/2006

PATENT APPLICATION: US/10/722,903B

TIME: 08:13:03

Input Set : A:\Revised Sequence Listing\_GTC-53.ST25.txt

Output Set: N:\CRF4\05162006\J722903B.raw

```

72 <220> FEATURE:
73 <221> NAME/KEY: misc_feature
74 <223> OTHER INFORMATION: S241P Oligo Amino Acid
76 <400> SEQUENCE: 4
78 Gly Pro Pro Cys Pro Pro Cys Pro Gly Lys Pro
79 1          5          10
82 <210> SEQ ID NO: 5
83 <211> LENGTH: 65
84 <212> TYPE: DNA
85 <213> ORGANISM: Homo sapiens
88 <220> FEATURE:
89 <221> NAME/KEY: misc_feature
90 <223> OTHER INFORMATION: IgG4 Hinge Region Nucleic Acid
92 <400> SEQUENCE: 5
93 cttctctctg cagagtccaa atatggtccc ccatgcccacat catgcccagg tccgccaacc      60
95 caggc                                                                    65
98 <210> SEQ ID NO: 6
99 <211> LENGTH: 12
100 <212> TYPE: PRT
101 <213> ORGANISM: Homo sapiens
104 <220> FEATURE:
105 <221> NAME/KEY: misc_feature
106 <223> OTHER INFORMATION: IgG4 Hinge Region Amino Acid
108 <400> SEQUENCE: 6
110 Glu Ser Lys Tyr Gly Pro Pro Cys Pro Ser Cys Pro
111 1          5          10
115 <210> SEQ ID NO: 7
116 <211> LENGTH: 65
117 <212> TYPE: DNA
118 <213> ORGANISM: Homo sapiens
121 <220> FEATURE:
122 <221> NAME/KEY: misc_feature
123 <223> OTHER INFORMATION: IgG2 Hinge Region Nucleic Acid
125 <400> SEQUENCE: 7
126 cttctctctg cagagcgcaa atgttgtgtc gagggtccac cgtgcccagg tccgccaacc      60
128 caggc                                                                    65
131 <210> SEQ ID NO: 8
132 <211> LENGTH: 12
133 <212> TYPE: PRT
134 <213> ORGANISM: Homo sapiens
137 <220> FEATURE:
138 <221> NAME/KEY: misc_feature
139 <223> OTHER INFORMATION: IgG2 Hinge Region Amino Acid
141 <400> SEQUENCE: 8
143 Glu Arg Lys Cys Cys Val Glu Cys Pro Pro Cys Pro
144 1          5          10
147 <210> SEQ ID NO: 9
148 <211> LENGTH: 33
149 <212> TYPE: DNA

```

## RAW SEQUENCE LISTING

DATE: 05/16/2006

PATENT APPLICATION: US/10/722,903B

TIME: 08:13:03

Input Set : A:\Revised Sequence Listing\_GTC-53.ST25.txt

Output Set: N:\CRF4\05162006\J722903B.raw

150 <213> ORGANISM: oligonucleotide  
153 <220> FEATURE:  
154 <221> NAME/KEY: misc\_feature  
155 <223> OTHER INFORMATION: Oligo 2014 Nucleic Acid  
157 <400> SEQUENCE: 9  
158 gaggagcagt tccagtctac ttaccgagtg gtc  
161 <210> SEQ ID NO: 10  
162 <211> LENGTH: 11  
163 <212> TYPE: PRT  
164 <213> ORGANISM: oligonucleotide  
167 <220> FEATURE:  
168 <221> NAME/KEY: misc\_feature  
169 <223> OTHER INFORMATION: Oligo 2014 Amino Acid  
172 <400> SEQUENCE: 10  
174 Glu Glu Gln Phe Gln Ser Thr Tyr Arg Val Val  
175 1 5 10

Invalid  
ResponseInvalid  
Response

See item

33

#10 on

error

Summary  
Sheet.

**VERIFICATION SUMMARY**

DATE: 05/16/2006

PATENT APPLICATION: US/10/722,903B

TIME: 08:13:04

Input Set : A:\Revised Sequence Listing\_GTC-53.ST25.txt

Output Set: N:\CRF4\05162006\J722903B.raw